

PATENT CLAIMS

1. Junction structure for connecting two profiles (1, 2), in particular in a vehicle support frame, the first profile (1) of which has at least two planar, parallel sides and the second profile (2) consists of two parallel, opposite girders (3, 4) and at least one strip (5, 6) connecting the girders (3, 4), whereby the girders (3, 4) with their lateral ends project relative to the strip (5, 6), these projections forming paired parallel flanges (31, 41, 32, 42), characterized in that the first profile (1) at the location of connection has a recess (7) into which the second profile (2) is inserted on the front side in such a manner that the parallel sides of the opposite ends (8, 9) of the first profile (1) limiting the recess rest in a form fit against the insides (31a, 41a, 32a, 42a) of the opposite flanges (31, 41, 32, 42) of the second profile (2) and are connected thereto.
2. Junction structure according to Claim 1, characterized in that the second profile (2) is a DAVEX profile.
3. Junction structure according to Claim 1 or 2, characterized in that the profiles (1, 2) are joined by welding.
4. Junction structure according to Claim 3, characterized in that the weld join is configured as a linear weld seam (3a, 4a).
5. Junction structure according to any one of Claims 1 to 4, characterized in that the first profile (1) is configured as a vehicle longitudinal member, in particular as a rear vehicle longitudinal member, and the second profile (2) as a vehicle cross member.
6. Junction structure according to Claims 2 and 5, characterized in that the second profile (2) is configured as a vehicle seating support.
7. Junction structure according to any one of Claims 1 to 6, characterized in that the first profile (1) is completely split at the location of connection.

8. Junction structure according to Claim 7, characterized in that the one end (9) of the first profile (1), completely split on the side turned away from the second profile (2), has a projection (10), by which it is connected to the other end (8) of the first profile (1).
9. Junction structure according to any one of Claims 1 to 6, characterized in that the first profile (1) is split at the location of connection as far as a strip (11) arranged on the side turned away from the second profile (2).
10. Junction structure according to any one of Claims 1 to 9, characterized in that the second profile (2) has two strips (3,4), one of which is cut lengthwise.
11. Junction structure according to any one of Claims 1 to 10, characterized in that the junction structure is additionally enclosed with shell-type elements.
12. Junction structure according to Claim 11, characterized in that the shell-type elements are configured as deep-drawn or edge components.